

Patent Abstracts of Japan

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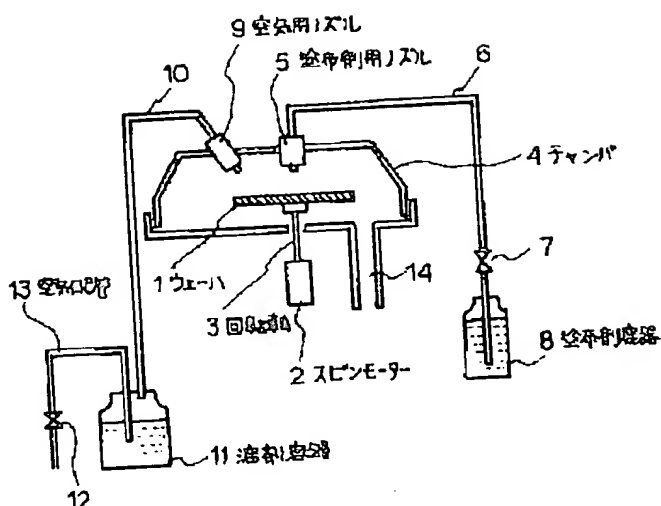
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TITLE : SPIN COATING METHOD



ABSTRACT : PURPOSE: To prevent webbing and enable the formation of a thick diffusion agent film by increasing the solvent concentration in the atmosphere in proximity to the film, formed on a rotating substrate by dropping thereon coating agent, or coating material dissolved in solvent.

CONSTITUTION: A nozzle 5 is, in a chamber 4, pointed to the center of a silicon wafer 1, horizontally held on the rotating shaft 3 of a spin motor 2, and connected to a coating agent container 8 through a pipe 6, including a valve 7. An air nozzle 9 is led in through the lid of the chamber 4. The air nozzle 9 is connected to a solvent container 11 through a pipe 10, and an air pipe 13, including a valve 12, is led in with its outlet under the surface of the solvent, such as water. To coat a wafer 1 with diffusion agent containing boron, for example, by spin coating, the agent is dropped thereon through the nozzle 5, and further, humidified air (to approx. 40% or above) is blown through the nozzle 9. This prevents webbing on the periphery of the wafer.

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